

## ABSTRACT

A reflector antenna device includes: an auxiliary reflector 1 that receives an electric wave radiated from an opening portion by a primary radiator 3 and reflects the electric wave; and a main reflector 2 that receives the electric wave that is reflected by the auxiliary reflector 1 and radiates the electric wave to a space. In the reflector antenna device, the configurations of the auxiliary reflector 1 and the main reflector 2 are designed such that an electric power in an area of the main reflector 2 where the auxiliary reflector 1 is projected on the main reflector 2 in parallel with the radiating direction of the electric wave due to the main reflector 2 is equal to or lower than a predetermined first threshold value, and a radiation pattern of the antenna which is determined by the area of the main reflector 2 other than the area has a desired characteristic.